

```

+1   TCACTAGTACCATAATATTACAAACACACACACCTCAGAAACGAAGCTTGC
+53  ACATAATGTCTCTTCAACAAGTACCCACAACAGAAACAACCACCAGGAAGAA
1     M S L Q Q V P T T E T T T R K N
+105 CCGAAACGAGGGGCGGAAACGATTACCGACAAACAAATAAGTTTCCTAGAG
17    R N E G R K R F T D K Q I S F L E
+157 TACATGTTTGAGACACAGTCGAGACCCGAGTTAAGGATGAAACACCAGTTGG
34    Y M F E T Q S R P E L R M K H Q L
+209 CACATAAACTCGGGCTTCATCCTCGTCAAGTGGCGATATGGTTCCAGAACAA
51    A H K L G L H P R Q V A I W F Q N K
+261 ACGCGCGGATCAAAGTCGAGGCAGATTGAGCAAGAGTATAACGCGCTAAAG
69    R A R S K S R Q I E Q E Y N A L K
+313 CATAACTACGAGACGCTTGGCTCTAAATCCGAGTCTCTAAAGAAAGAGAATC
86    H N Y E T L A S K S E S L K K E N
+365 AGGCCCTACTCAATCAGgtatggttgcaacttacaatggttgcatcaacta
103   Q A L L N Q
+417 tttaagtagttttgaatttttgtgacaataaagattgacaaatggtggttga
+469 taattgattaacagTTGGAGGTGCTGAGAAATGTAGCAGAAAGCATCAAGA
109   L E V L R N V A E K H Q E
+521 GAAAACTAGTAGTAGTGGCAGCGGTGAAGAATCGGATGATCGGTTTACGAAC
122   K T S S S G S G E E S D D R F T N
+573 TCTCCGGACGTTATGTTTGGTCAAGAAATGAATGTCCGTTTTCGCGACGGTT
139   S P D V M F G Q E M N V P F C D G
+625 TTGCGTACTTTGAAGAAGGAAACAGTTTGTGGAGATTGAAGAACAACGACC
156   F A Y F E E G N S L L E I E E Q L P
+677 AGACCCTCAAAAGTGGTGGGAGTTCTAAAGAGTAAAGAAGGATGTAGAAGTA
174   D P Q K W W E F *
+729 GTAGAGTAAAACTAAACATACCAGATAGTTGGTTTACACTTTGT

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Athb-1  LPEKRRRLTEOVHLLERSFETENKLEPERKTQLAKKLGLOPROVAVWFONRRARWKTKOLERDYDLKSTYDQLLSNYDSIVMDNDRERSEVTSITER
Athb-6  LSEKRRRLSINOVRALERNFLENKLEPERKVKLAQELGLOPROVAVWFONRRARWKTKOLERDYCVLKYDYSYLRANFDSYRRDNESLQRIISKIKTK
Athb-7  NKNMORRFSDEQIKSLEMMFESETRLEPRKKVOLARELGLOPROVAIWFOHARARWKSQLETEYNILRQNYDNLASQFESLKKKQALVSELORLKEA
Athb-12 RSNNOKRNEEQIKSLELIFESETRLEPRKKVOVARELGLOPRMTIWFONRRARWKTKOLEKEYNTLRANYNNLASQFETMKKQSLVSELORLNEE
Hahb-4  RNEGKRRFTKQTSFLEYMFETQSRPELRMKHQLAKKLGLOPROVAIWFOHARARWKSQLETEYNILRQNYETLASKSESLLKKENQALLNOLEVRNV

```

FIG. 1

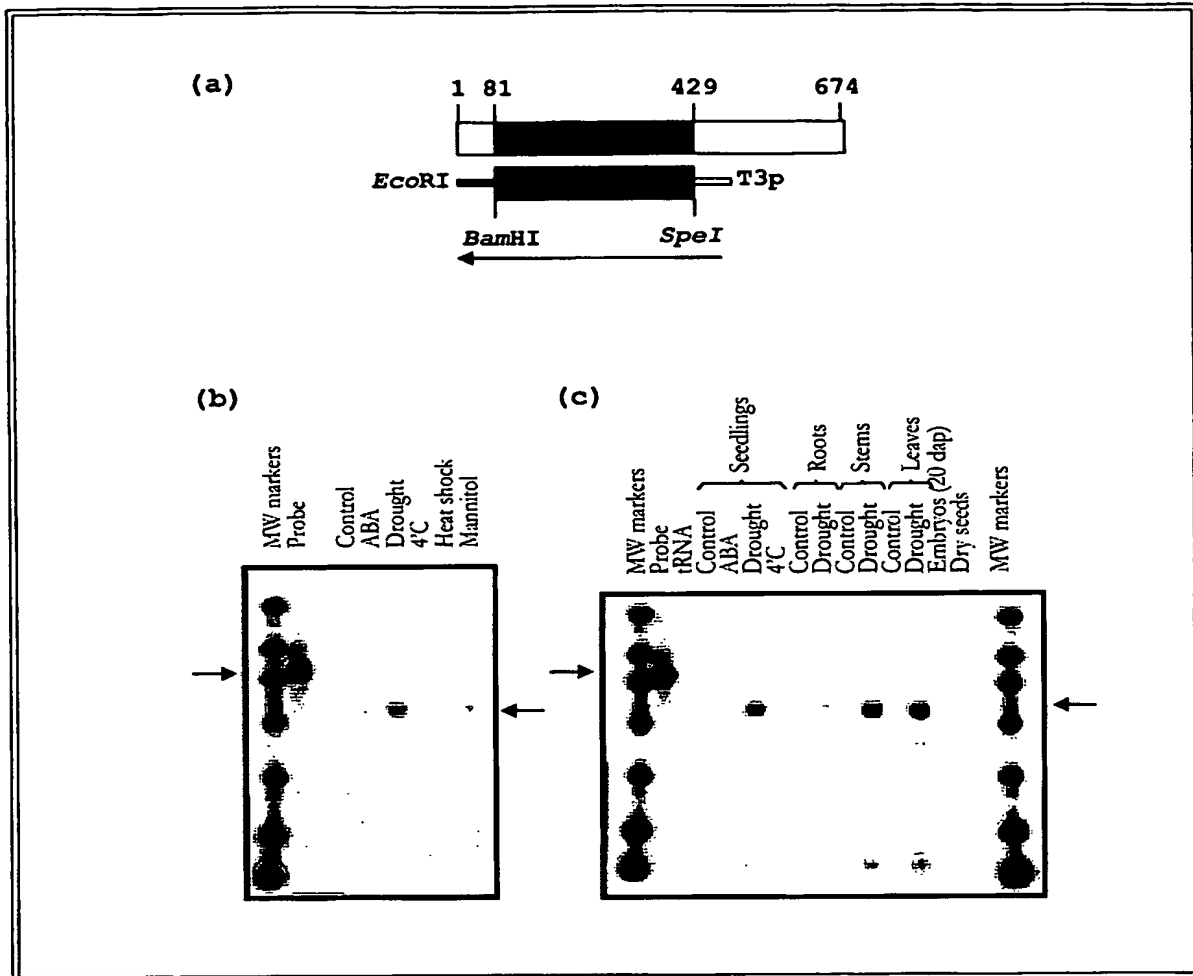


FIG. 2

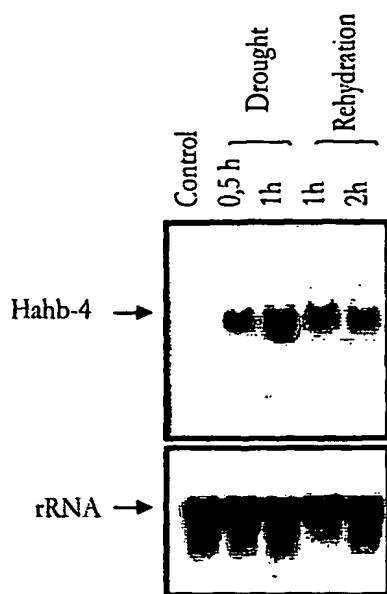


FIG. 3

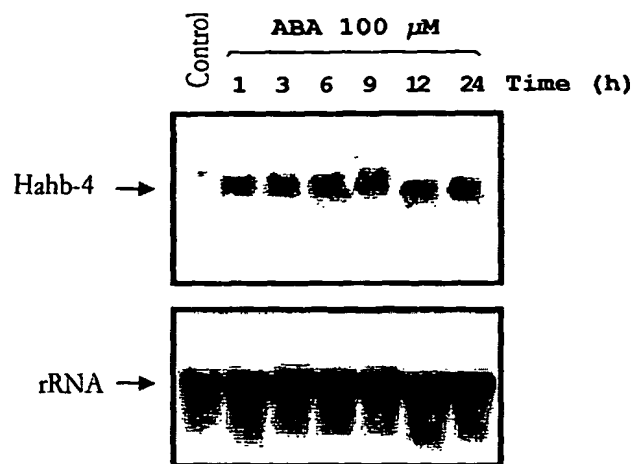


FIG. 4

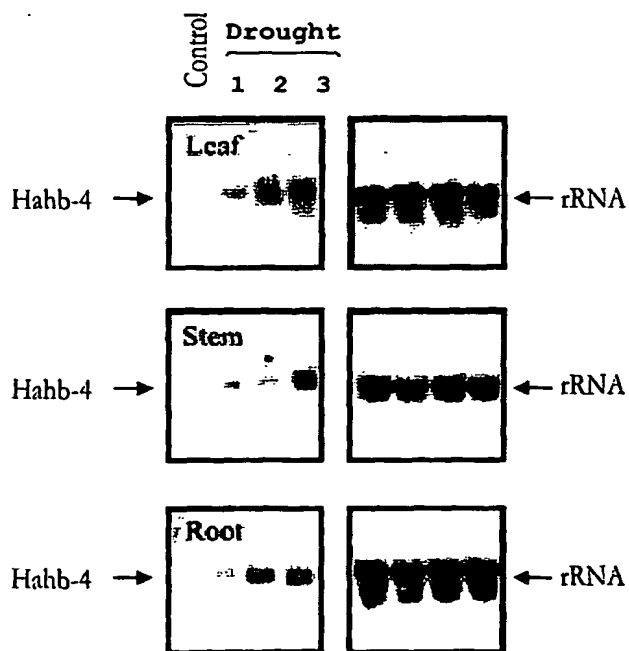


FIG. 5

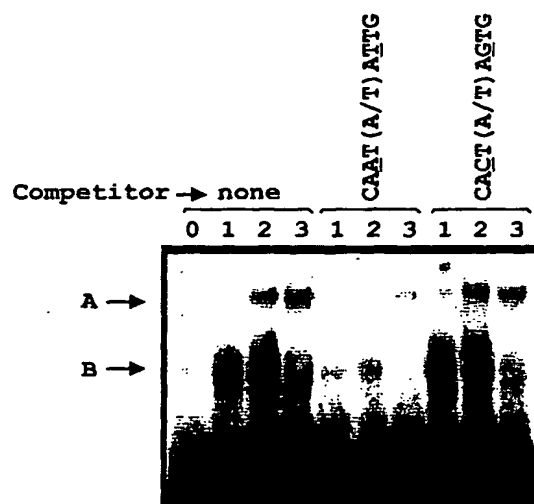


FIG. 6

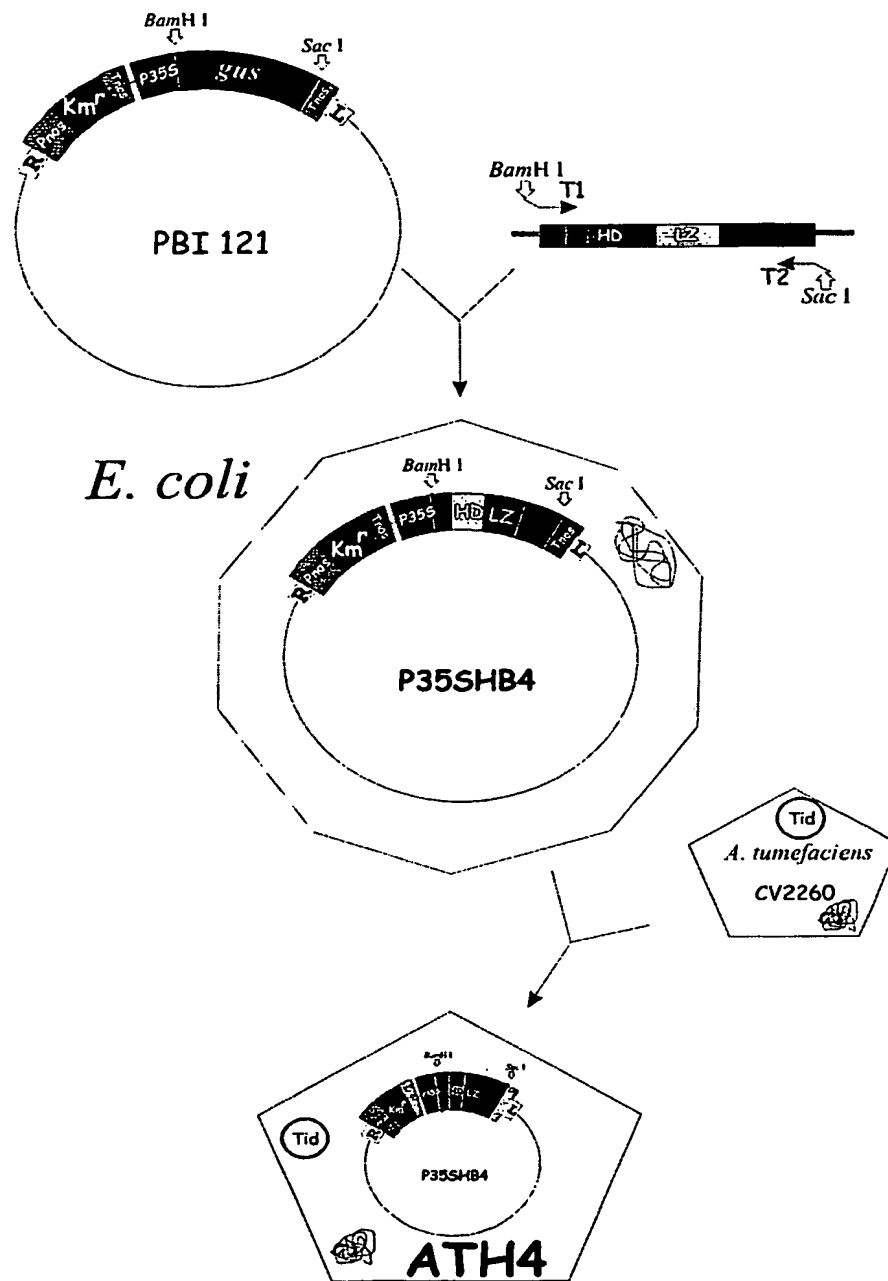


FIG. 7

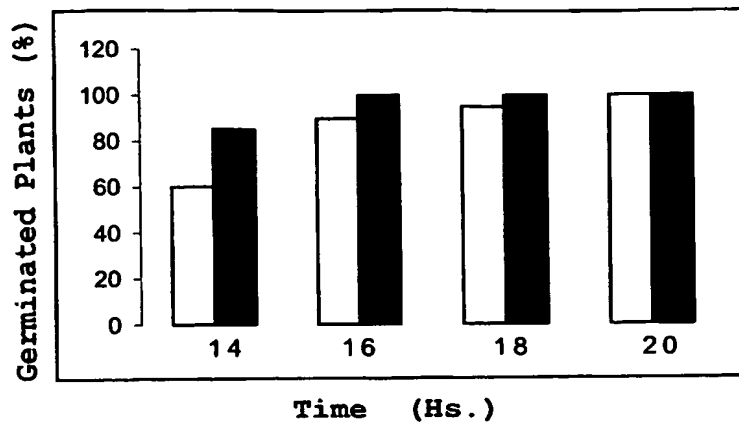


FIG. 8

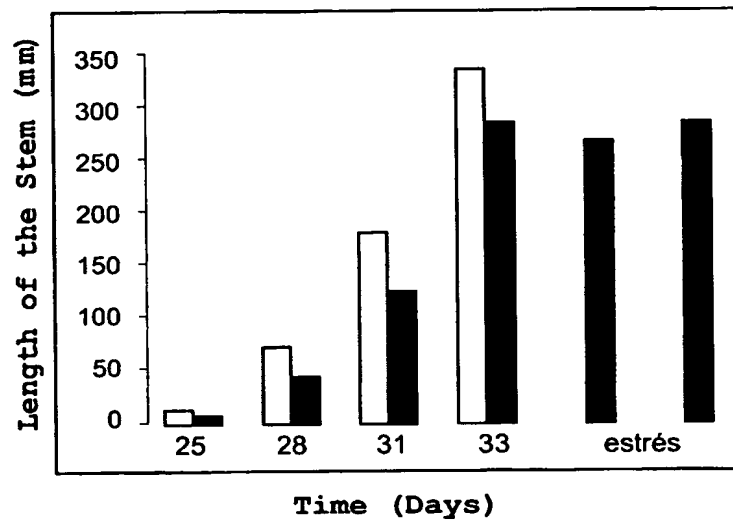


FIG. 9

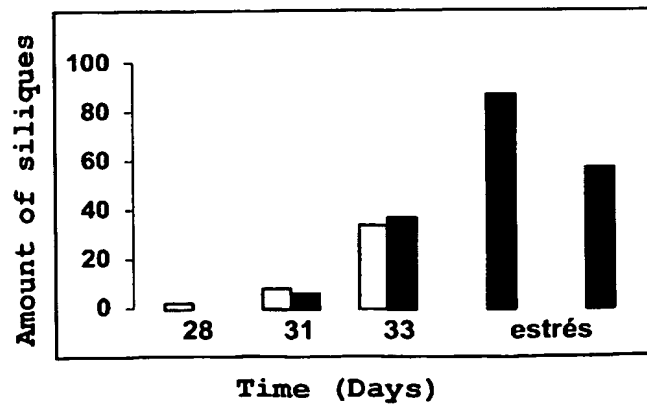


FIG. 10

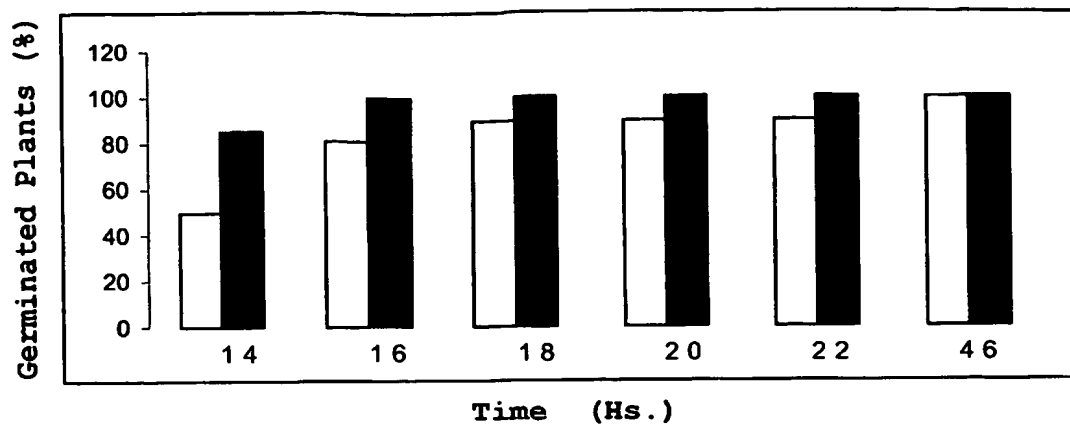


FIG. 11

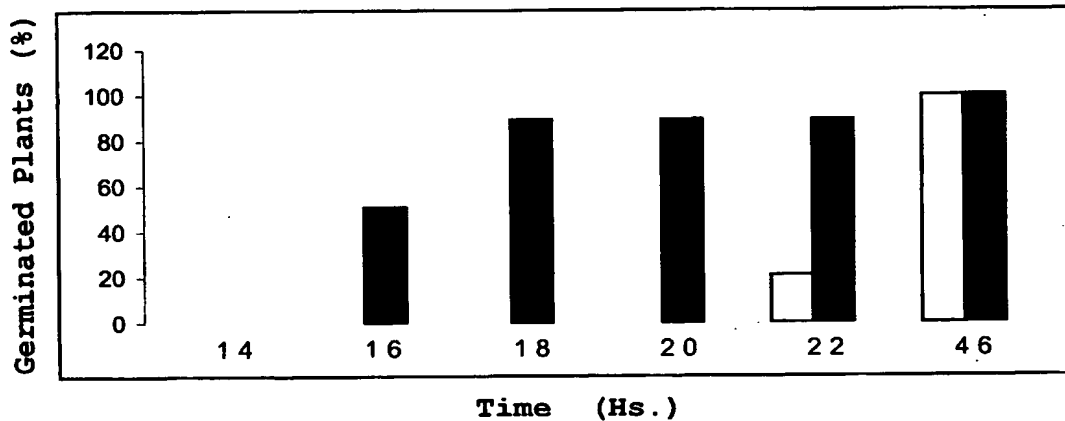


FIG. 12

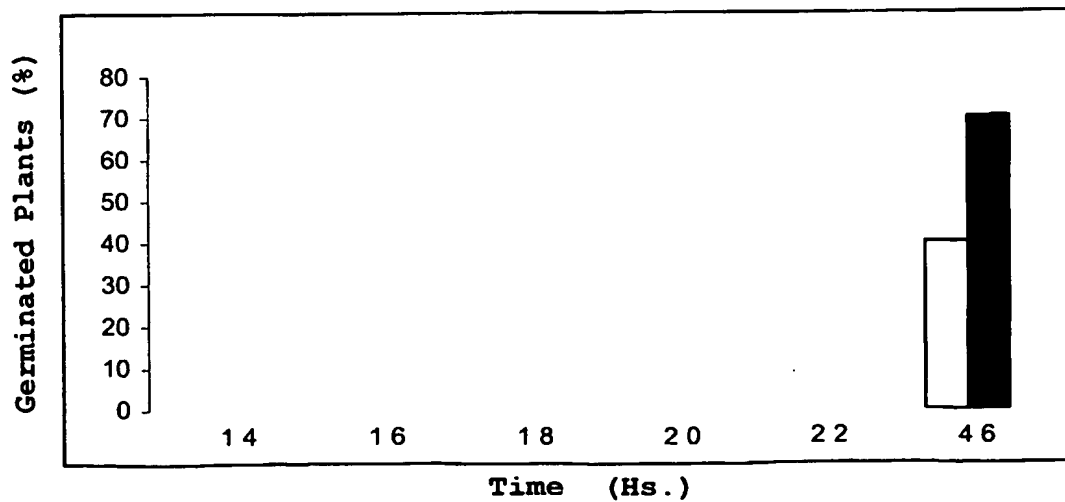
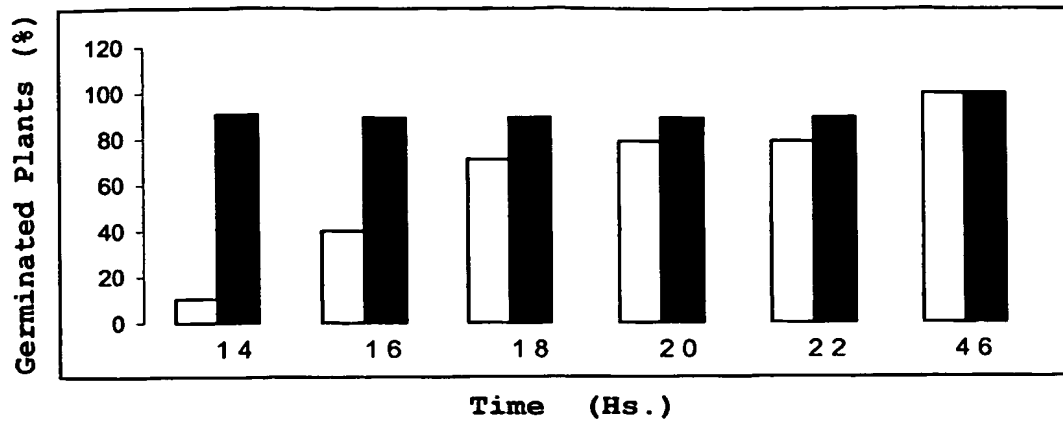
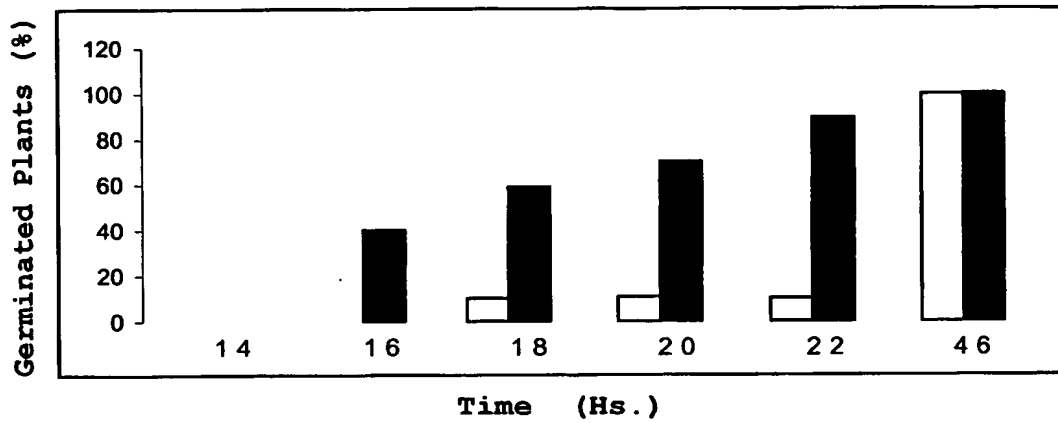
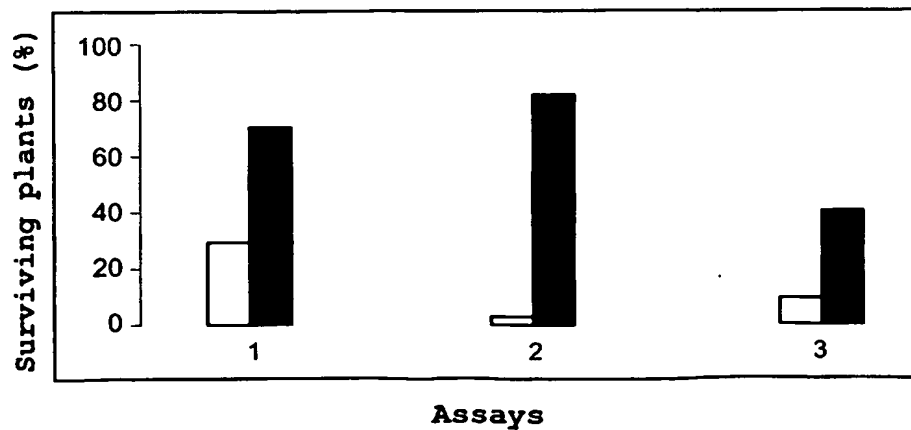


FIG. 13

**FIG. 14****FIG. 15****FIG. 16**

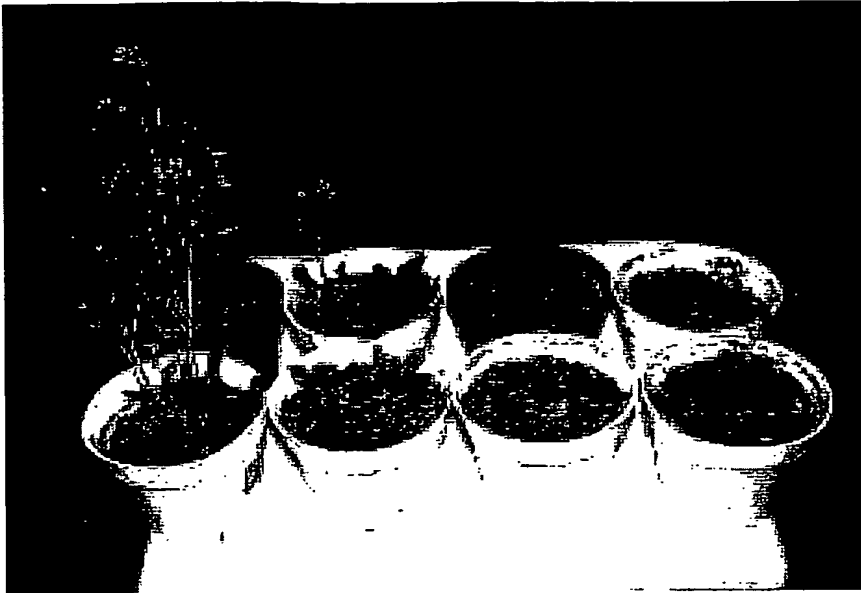


FIG. 17 a

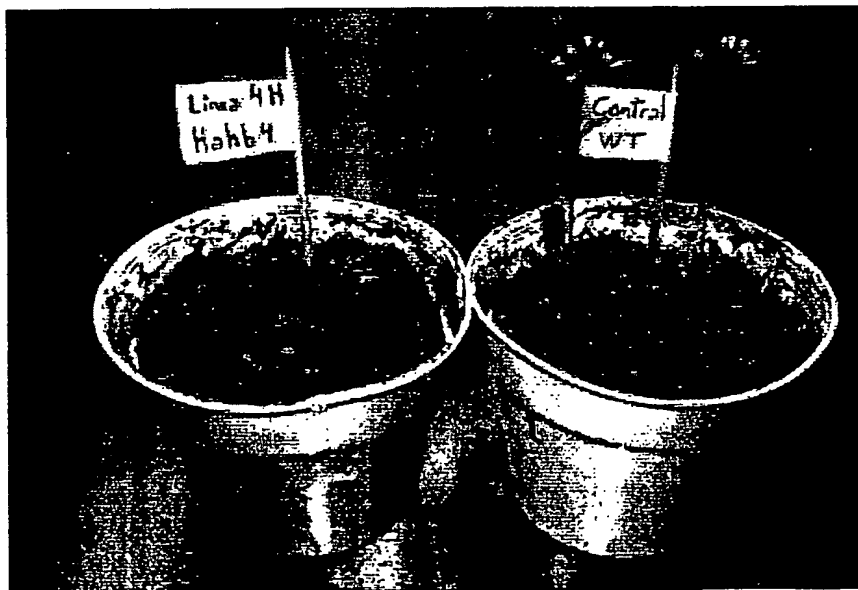


FIG. 17 b

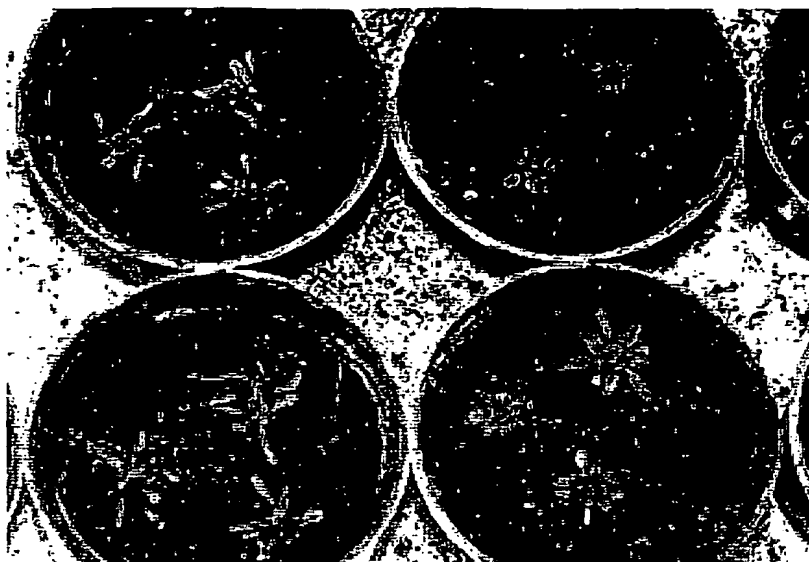


FIG. 17 c



FIG. 17d

-1221 GATCCAATTGGACCACCTGGCACATCGTATCTTATCTCTTTTGTCTGTTTCCAACA
-1166 CACCACAACACACCTACAAAACGTGTCAATTCACACTTCACCAATTTCAATTCCTT
-1111 TTAGTCAATCATATTAAAAGTAGTAGCCCCACCCCCATTGTTACCTACCATT
-1056 CCCACTTTAATAATCACCCACGCTATGTCCACCTGTACTTTTGTGTTGCACACAAC
-1001 TCTTACCCATAAAATATCAAACCAAATTTTTTTTTAGTGGAACAAATTCCCAA
-946 ATAGAATACTAACGAAATTCATCGCATCAGAATACACTCATCTCTGAACAGTGGC
-891 GAAGCTTGACGTTTTTCGACGGGGGGTCGGAACGTATGTACCCGAAATTTCTAT
-836 AGAATCGGGGGGTCGAAAACGTATATACCCAAAATTTCTATACGAAAACACATA
-781 TATAACACTACTGAGCAAAAAGTTCGGGGGTTTCGGGCGCCCTCCCGGCCCTTCA
-726 AAGCTTCGCCAATGTCTCTGAACCGAAGAAAACCTCACTCGTCTACTAGCCAAT
-671 GAATCCTCACCAGGGAAAACCTCACTCGTCTTACTGGACTATTGGCGCTTCCAA
-616 ATGGACTACTTGCGAAATTCACCACATCGGGATACACTCGTCTACTGCGGTGAGG
-561 TAAAACCCGCTTGGCTCAAGGGTACGAACTAGCGATTGCTGCCTACTCGCCTAAT
-506 CTCCATCATCAACCAGGTGCCGCCGAACAAATGCTGGGGCGGAGTTGAAGCCTAGG
-451 GTCCAGTGACGCACCCATGAATTTTTTTCTAGGGATGCGAACGAGTGGTTTAACC
-396 ATACTTTTAAGAGGTGCGGATCGGAAATTTTACCTATAAAATACACTAAAAAAGT
-341 TCCAAGGGTCCACCCACCCCTTAACCTAAGTCCGCCTTTGTCTGGATCACGTGAA
-286 ACATCAGGTCTCTCCCTTACCAGTCCAGCTACGACTCATTGACAAAATATCAAAA
-231 CCATATGATTTTGAGTTTATCTCAACCGAAAGTGACATCATGACAGAGAATCGA
-176 CATTAACCATAACGTTAAACGTACAACCTACCATTGCGTTGAAAAGGACAGAACA
-121 GGTAGGATTCTCGTCAAATTC AACCGTACACCTGTGCTTCATCTAAACCCATA
-66 CTTTAAAGAACCTTTATAAAGACCACTCACTATATATACACATATATATATCAC
-11 TTATCAAACCC+1

FIG. 18

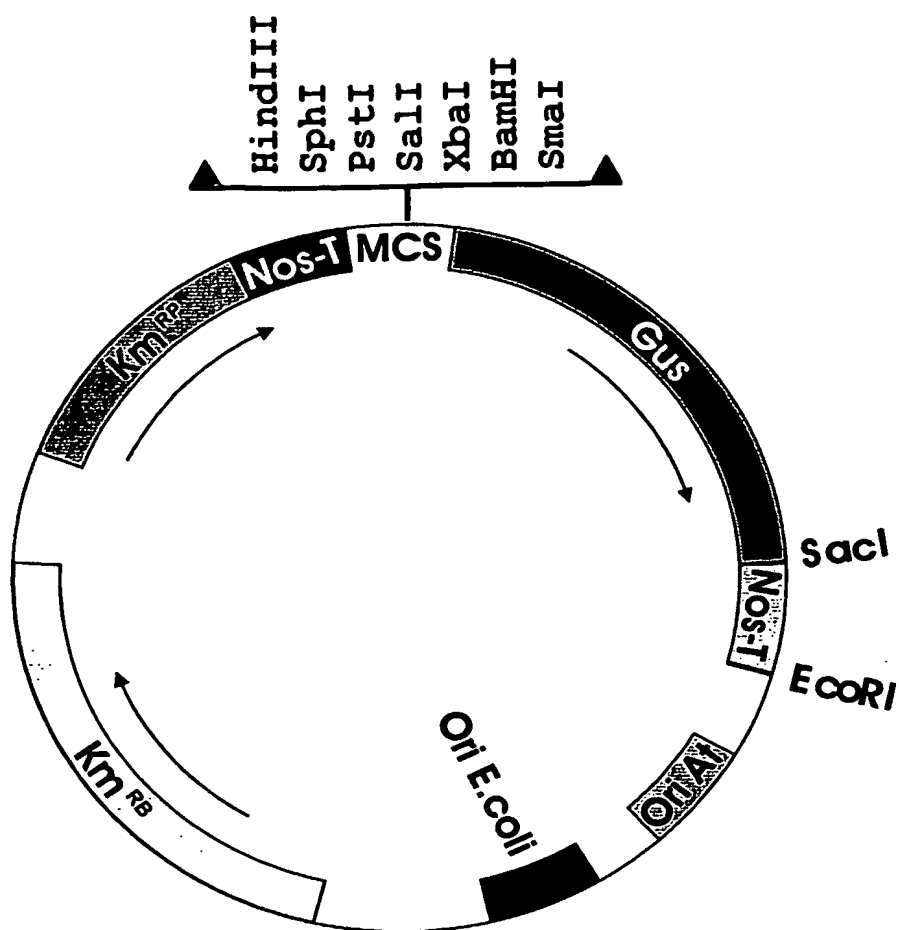


FIG. 19

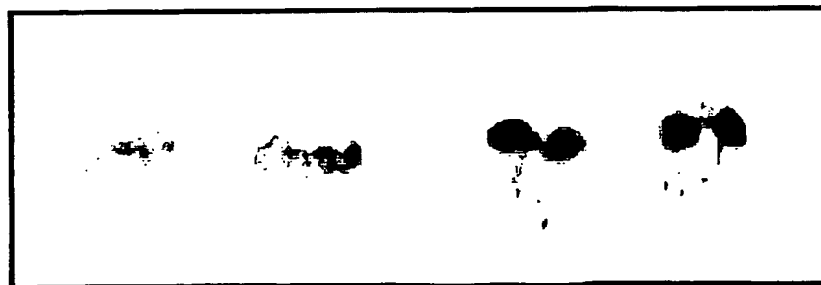


FIG. 20

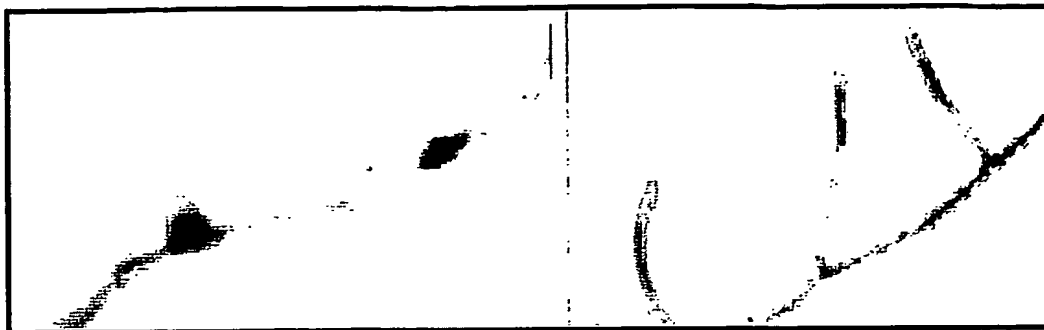


FIG. 21 a

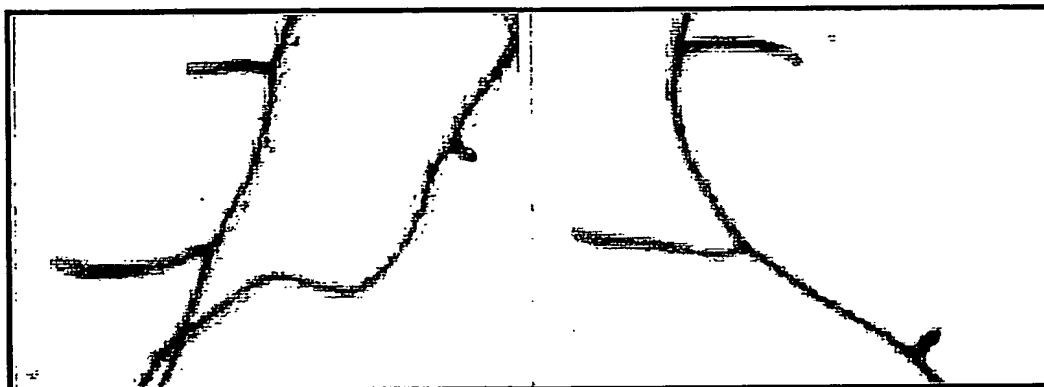


FIG. 21 b



FIG. 21 c



FIG. 22

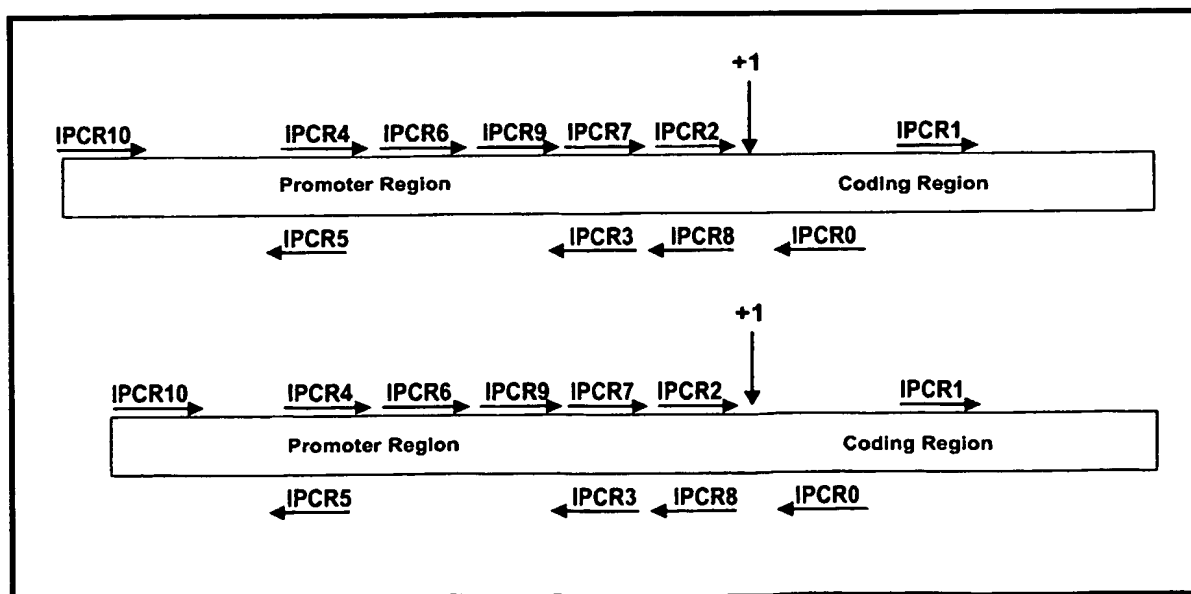


FIG. 23